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PATENT COOPERATION TREATY

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WIPO PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

15

(PCT Article 36 and Rule 70)

A 1:			
Applicant's or agent's file reference IRC275	FOR FURTHER ACTION	See Notif Preliminary	ication of Transmittal of International Examination Report (Form PCT/IPEA/416)
International application No.	International filing date (day/month/year) Priority date (d		Priority date (day/month/year)
PCT/US99/25757	05 NOVEMBER 1999		05 NOVEMBER 1998
International Patent Classification (IPC) or national classification and IPC Please See Supplemental Sheet.			
Applicant INTERFACE, INC.			
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. This REPORT consists of a total of sheets. This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority. (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of sheets. 			
This report contains indication:		to	
I X Basis of the report II Priority III Non-establishment of report with regard to novelty, inventive step or industrial applicability IV Lack of unity of invention V X Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability citations and explanations supporting such statement VI Certain documents cited VII Certain defects in the international application VIII Certain observations on the international application			
Date of submission of the demand	Dat	e of completion	n of this report
17 MAY 2000		29 AUGUST 2	·
Name and mailing address of the IPEA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703) 305-3230 Authorized officer RICHARD CRISPINO Telephone No. (703) 308-0661		ISPINO Fint / (703) 308-0661	

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US99/25757

1. B	-asis	the report		
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х		international application as	s originally filed	
X		description:		
-	page	es 1-9 es NONE		
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	page	es NONE	, filed with the letter of	
x	the	claims:		
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X		drawings:		
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	the la	anguage of publication of t	turnished for the purposes of international search (uniformational application (under Rule 48.3(b)). This international preliminary examinational preliminary examinational preliminary examinational preliminary.	
prel	eliminar	ary examination was carried	or amino acid sequence disclosed in the international ed out on the basis of the sequence listing:	application, the international
Ш	contai	ined in the international a	application in printed form.	
			ional application in computer readable form.	
_			Authority in written form.	
_			Authority in computer readable form.	
	The sta	tatement that the subsequen	ently furnished written sequence listing does not go b	the state of the state of the state of
_	michia	ational application as med		
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4. X		amendments have resulted	in the cancellation of:	
,	X,	the description, pages	NONE	
ļ	Image: second color of the col	the claims, Nos.	NONE	
]		the drawings, sheets/fig	NONE	
5.			(some of) the amendments had not been made, since the	1 E-am gamaidamed to go
* Replain this and 7	beyon cement is repor 70.17).	nd the disclosure as filed, as it sheets which have been furner as "originally filed" and	s indicated in the Supplemental Box (Rule 70.2(c)).** nished to the receiving Office in response to an invitation u d are not annexed to this report since they do not conto	under Article 14 are referred to tain amendments (Rules 70.16
**Any 1	replace	ement sheet containing such	h amendments must be referred to under item 1 and an	nnexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US99/25757

v.	Reas ned statement under Article 35 citati ns and explanations supp rting	(2) with regar	rd to n velty, inventive step r industrial applicabent	oility;
1.	statement			
	Novelty (N)	Claims	1-15	_ YES
	• • •	Claims	NONE	_ NO
	Inventive Step (IS)	Claims	1-15	_ YES
		Claims	NONE	NO
	Industrial Applicability (IA)	Claims	1-15	_ YES
l		Claims	NONE	_ NO

2. citations and explanations (Rule 70.7)

Claims 1-15 meet the criteria set out in PCT Article 33(2)-(4). Methods for the recycling of granulated polyurethane foams by way of glycolysis (as with an organic polyol)under the effects of elevated temperature followed by the reconstitution of a polyurethane foam by the addition of a polyisocyanate, such as disclosed by U.S. Patent No. 5,648,431 to Demuth et al. and EP 771828 A2 to Lammeck et al., are known in the art. However, none of the prior art of record specifically suggests or fairly teaches such a method wherein a floor covering, comprising a facecloth layer, a backing layer, and at least one polyurethane foam layer, is recycled by contacting the floor covering with an organic polyol under elevated temperature, causing the dissociation of the polyurethane foam layer, followed by the separation of the facecloth layer therefrom. It should be noted that the documents cited in the International Search Report as "Y" or "Y,P" references, upon further reconsideration, were found not to render the instant invention obvious when combined as none of those references specifically suggest or fairly teach the method as set forth in claims 1-15. Those references would be properly referred to as "A" references in that they define the general state-of-the-art and are not considered to be of particular relevance.

NEW CITATIONS	
EP 0 771 828 A2 (LAMMECK et al) 07 May 1997, see entire document especia	ally column 4, lines 30-59 and column 5,
lines 1-2.	

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US99/25757

Sup	plem	ental	Вх
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(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes I - VIII

Sheet 10

CLASSIFICATION:

The International Patent Classification (IPC) and/or the National classification are as listed below: IPC(7): A46D 1/00; B31B 1/60; B32B 3/02, 31/00, 33/00; B44C 1/165; C08F 20/00, 283/04; C08G 63/91; C08J 11/04 and

US Cl.: 156/60, 72, 230, 231, 247, 344; 428/85, 91, 95, 96, 97; 442/48; 521/49, 49.5; 524/589, 590; 525/415, 440, 454

PATENT COOPERATION TREATY

	From the INTERNATIONAL BUREAU
PCT	То:
NOTIFICATION OF ELECTION (PCT Rule 61.2)	Assistant Commissioner for Patents United States Patent and Trademark Office Box PCT Washington, D.C.20231 ETATS-UNIS D'AMERIQUE
Date of mailing (day/month/year) 21 June 2000 (21.06.00)	in its capacity as elected Office
International application No. PCT/US99/25757	Applicant's or agent's file reference
International filing date (day/month/year) 05 November 1999 (05.11.99)	Priority date (day/month/year) 05 November 1998 (05.11.98)
Applicant BERARD, Raymond, A.	
1. The designated Office is hereby notified of its election made X in the demand filed with the International Preliminary	Examining Authority on: 7.05.00) ational Bureau on:

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

Pascal Piriou

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35

INTERNATIONAL SEARCH REPORT

International application No. PCT/US99/25757

A. CLASSIFICATION OF SUBJECT MATTER IPC(6) : Please See Extra Sheet.		
US CL :Please See Extra Sheet.	h antiquel alassification and IDC	
According to International Patent Classification (IPC) or to both	n national classification and IPC	
B. FIELDS SEARCHED		
Minimum documentation searched (classification system follow	, ,	
U.S. : .156/60, 72, 230, 231, 247, 344; 428/85, 91, 95, 96	5, 97; 442/48; 521/49, 49.5; 524/5 89 , 5	90; 525/415, 440, 454
Documentation searched other than minimum documentation to the	e extent that such documents are included	in the fields searched
Electronic data base consulted during the international search (name of data base and, where practicable	e, search terms used)
STN Express, EAST search terms: polyurethane? polyol? carpet? floor covering?	recycl? bitumen? modif?	
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category* Citation of document, with indication, where a	appropriate, of the relevant passages	Relevant to claim No.
Y US 5,648,431 A (DEMUTH et al) 15 J especially abstract, col. 3, lines 17-67		1-7
Y,P JUS 5,879,608 A (LAMMECK et al. documen especially abstract and col. 4	•	1-7
Y US 5,204,155 A (BELL et al) 20 Ap especially abstract, col. 4, lines 27-67		5
		,
Further documents are listed in the continuation of Box	C. See patent family annex.	
Special cátegories of cited documents:	"T" later document published after the int	
A document defining the general state of the art which is not considered to be of particular relevance	date and not in conflict with the app the principle or theory underlying the	
E earlier document published on or after the international filing date	"X" document of particular relevance; th	
"L" document which may throw doubts on priority claim(s) or which is	considered novel or cannot be conside when the document is taken alone	red to involve an inventive step
cited to lestablish the publication date of another citation or other apecial reason (as specified)	"Y" document of particular relovance; th	
O document referring to an oral disclosure, use, exhibition or other means '3	considered to involve an inventive combined with one or more other suc being obvious to a person skilled in	h documents, such combination
P document published prior to the international filing date but later than the priority date claimed	*& document member of the same paten	
Date of the actual completion of the international search Date of mailing of the international search report		arch report
22 JANUARY 2000 10 FEB 2000		
Name and mailing address of the ISA/US Authorized offices		
Commissioner of Patents and Trademarks Box PCT:		
Washington, D.C. 20231		
Facsimile No. (703) 305-3230	Telephone No. (703) 308-0661	

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A46D 1/00; B31B 1/60; B32B 3/02, 31/00, 33/00; B44C 1/165; C08F 20/00, 283/04; C08G 63/91; C08J 11/04		
A. CLASSIFICATION OF SUBJECT MATTER: US CL:		
156/60, 72, 230, 231, 247, 344; 428/85, 91, 95, 96, 97; 442/48; 521/49, 49.5; 524/589, 590; 525/415, 440, 454		
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